



Enable Ireland's National Assistive Technology Training Service

Accessible Apps, Games and Toys

Welcome to Enable Ireland's National Assistive Technology Training Service Accessible Apps, Games and Toys booklet. We have gathered together information on a range of accessible toys. It includes a variety of accessible games, apps and toys.



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1. Introduction

Leisure and gaming can be sometimes overlooked when considering the needs of an individual. But it can be an important part of a young person's development and help enable inclusion into society. For children the benefits of play have been shown to build up imagination, promote social skills, advance physical development and develop problem solving skills etc. Here we look how we can make leisure time and gaming more inclusive to a wide range of abilities. There are now many options for accessible toys, game consoles and switch adapted toys.

The information has been prepared by Enable Ireland's National Assistive Technology Service. The toys shown are not necessarily recommendations but simply a selection of items which may be of interest, particularly at times such as Christmas and birthdays, when presents are high on the list of priorities.

2. Apps for Tablets

Nowadays tablets are now an option for accessible toys or games as there are a wide range of apps some specifically designed for special needs. Accessibility settings now built into the operating systems of iOS and Android now make them more accessible. Accessibility features include tools for low vision, blind users or users with motor control issues.

Accessibility features in iOS

iOS has a large range of accessibility features making its products

widely inclusive. An example of some of the main features can be

seen in this [video](#)

Switch access is built right into the accessibility options, providing alternative access to these tablet devices.

For more information see [Christopher Hills Switch control overview](#)

Also an update on: [How do I use a Switch or Joystick with an iPad? – October 2012 update!](#) | [Jane Farrall Consulting](#)

Accessibility features in Android

The latest version of Android is Android 11 and it has a [long list of accessibility features](#).

See this [video](#) for further details

Accessible Apps

Below is just a sample of some apps for the iPad specifically designed for special needs. Many are available for both the iOS app store and the Android play store. See further list in the appendix.

ChooseIt! Maker 3

The ChooseIt! Maker 3 App allows you to view your cause and effect activities, literacy activities, sound lotto and matching activities, multiple choice activities, games, and quizzes. It includes three sample activities which demonstrate some of the many ways CM3 can be used to create a variety of learning activities using symbols, pictures and sounds.

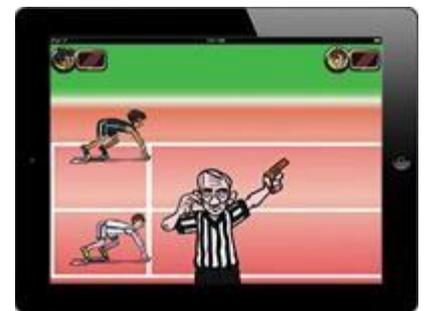


<https://itunes.apple.com/gb/app/chooseit!-maker-3/id682571868>

<https://play.google.com/store/apps/details?id=air.com.inclusive.cm3>

Hurdle Champion

Choose a character and take part in a hurdle race against the computer. Works with a single switch or by touching the screen. This game provides a motivating way to develop switch and timing skills.



Choose from three levels of difficulty to give you a chance to improve your performance. A clear visual clue is shown to tell you when it is time to help your runner clear the hurdles by pressing a switch or touching the screen.

<https://itunes.apple.com/gb/app/hurdle-champion/id557894486>

Space Shooter

Stop the alien invasion with your space shooter – a real blast from the past. Features to help children with special needs, this game can be played with a tap anywhere on the screen or by using a single external switch to zap the aliens.



<https://itunes.apple.com/gb/app/space-shooter/id557890309>

Train Tracker

Train Tracker wherever you go! Touch and switch accessible, uses one or two switch scanning. Compatible with all currently available iPad switch interfaces. Build your track and set your train on its way.



<https://itunes.apple.com/gb/app/train-tracker/id530126114>

New Age Kurling

An accessible kurling game for two players, choose the direction and speed of your kurl by simply touching the screen or pressing an external switch. A game to help develop switch timing, hand eye coordination and strategy skills. Use your four kurls to go for a high score or to knock your opponent off the target.

<https://apps.apple.com/us/app/new-age-kurling/id530447888>



Further apps

HelpKidzLearn have created motivational Apps specifically for children and designed to meet a range of special educational needs including switch access for those with physical disabilities. <http://www.helpkidzlearn.com/apps>

Jane Farrall has also co-produced this [Switch Accessible Apps](#) resource.

Switch Interfaces

Below is a sample of few switch interfaces of which there are several. Some work with either iOS or Android devices or both.

Blue2™ Switch

The Blue2 Bluetooth switch provides single or dual switch access to iDevices running iOS 7, OS X Mavericks, and all switch accessible apps or software on OS X, Windows, and Android. The Blue2 connects to your device via a Bluetooth connection and so requires no cable to the device.



<https://www.ablenetinc.com/blue2-bluetooth-switch/>

\$220

APPLICATOR for iPad

This APPLICATOR Switch Interface provides switch access to your iOS and Android. It also connects via a Bluetooth connection. It has various features to cater for a wide range of requirements. QuickMedia button takes you straight into controlling your music.

£129 <http://www.inclusive.co.uk/switch4apps-p5978>



Tecla Shield

Tecla gives access to iOS (iPhone, iPad, iPod Touch), Android and windows devices to individuals who find it difficult to use a touch-screen. €499 <http://gettecla.com/>



Puck.js

The [Puck.js](#) is a low-cost programmable microcontroller. Because it's programmable it makes it very versatile from using it as a switch interface to sending keyboard shortcuts to applications. Connects via Bluetooth. £30



See some [Examples](#)

Toys for iPads

Mip



MiP responds to hand gestures, carries its own weight, and comes with a free app that enables you to drive it, battle other MiPs, and more!

[Cost £152](#)

Further information see [WowWee®- MiP](#)

Sphero Mini

Sphero Mini is a robot for kids. Beginner learners can drive and play STEM-inspired games with the Sphero Play App, and more experienced learners can advance to programming the Mini with Block Based Coding or Javascript in the Sphero Edu App.



Build your own mazes, obstacles, towers and other courses to navigate through the living room or kitchen!

[sphero-mini-programmable-robot](#) €60

<https://youtu.be/56804i1-hFw>

Osmo games Explorer Starter Kit

Everything you need to play nine classic Osmo games! A STEAM learning kit , Explorer Starter Kit features all of the interactive kids games from Genius Starter Kit, Monster and Coding Family. Includes games pieces, art supplies, and stackable storage — just add your tablet!

[Cost €99](#)

[Yadiel and Isaac unbox and review Osmo genius starter kit](#)



Other options

iPhone Accessories: [gaming and toys](#)

iPad accessories

Big Grips

Big Grips are made from a soft, squishy foam where the iPad fits into the frame. Protection against drops and cushion to hold the device. A matching stand is also available. Comes in eight colours



<http://www.inclusive.co.uk/big-grips-bundles-p5773>

[£30](#)

Otterbox covers

[Otterbox](#) offers a variety of cases for portable devices. They provide greater protection against drops, and bumps. Some cases also have built-in screen protectors. Price ranges of various models.



Mounting the iPad

Mounting your tablet on a suitable mount can make it become easier to see and access, especially for individuals with mobility difficulties.

Below, is just a sample of the many options that are now available for mounting your tablet.#

Variable Friction Arm mount

The Manfrotto Variable Friction Arm mounting solution has a range of cradles/holder for the iPad 2,3,4, Air, iPad Air 2, iPad 2017, iPad Mini or iPad Mini 4/5. Can be used to mount to many household items such as desks, tables or wheelchairs via its Super Clamp. Easy to position, with an adjustable arm, extends to 520mm (20.5 inch).

[Manfrotto mount £199](#)

[Bamboo cradle £66](#)



Inclusive Mounting for Universal Tablet Holder

The Universal Tablet Holder is a highly adjustable tablet holder for mounting any tablet from between 7" and 13" with or without a case. The tablet mount works with Apple iPad and Samsung Galaxy tablets, it is easily adjustable with knobs and an Allen key.

£359.00 [Safecare technologies](#) is an Irish supplier of Rehadapt mounts.



Mount'n Mover

This mount can be attached to a wheelchair. Levers on the mount allow the user to independently move and tilt the device to different positions. About €1000

<https://idealtechnology.ie/product/mount-n-mover-2/>

<https://youtu.be/sOkOYQsUR6A>



Ram Mounts wheelchair tablet mount

[Ram Mounts](#) have a range of mounting components to mount various portable devices.

More information: [Ideal Technology Ram Mounts.](#)



Further Resources

Useful tips/links in educational settings.

[Call Scotland iPad App Wheels](#)

<http://www.spectronicsinoz.com/apps-for-special-education>

<http://www.spectronicsinoz.com/apps-for-literacy-support>

<http://www.spectronicsinoz.com/iphoneipad-apps-for-aac>

3. Computer Games

There are a wide range of games available for the general PC. Games that require a high skill level in hand/eye coordination may not be accessible for many users. However some mainstream games can be made more accessible with additional hardware or software as seen below in alternative input methods. Fortunately also there are many games that have been designed to be more accessible to play such as one switch games. There are a number of resources dedicated to accessible games that provide discussion forums and game reviews.

Alternative input methods

Before considering specialize software to access a computer, it's worth looking at alternative methods to access your computer. The standard method or input device to control a computer is your standard keyboard and mouse. If this is not suitable for the user, then there are a range of other options that emulate the keyboard and mouse.



Alternative mice and keyboards

If the standard computer mouse and keyboard is unsuitable for the user there are many alternatives to the standards options as can be seen in the following videos.

<http://www.youtube.com/watch?v=dfAGRcoxVWg&feature=plcp>

http://www.youtube.com/watch?v=GH_Jmza_qWs&feature=plcp

Touch screens

Touch screens: touch screens are fast becoming the norm in terms of mobile devices and computers. They can be used as an alternative option for mouse control. Additionally using an onscreen keyboard will allow text entry. Touch screens are available in a range of sized and can replace the standard computer screen on a desktop PC. They are available from most computer stores.

<https://www.elotouch.com/touchscreen-monitors.html>

Switch access programs

This type of software can enable switch control of the keyboard and mouse. Customised grids can be made to suit the user and application. Switches are used to activate a scan and select cells within the grid.

e.g.

- [Grid3](#)
- [Communicator](#)



Switch interface for PC

The JoyCable is an easy way to plug switches into a computer. The JoyCable plugs into the USB port and you can connect one or two switches, with standard (3.5mm) switch inputs. The JoyCable will work with popular software such as The Grid 2, Clicker or Widgit software. Using the [switch driver](#) you can assign keystrokes or mouse emulation to the connected switches.



[JoyCable](https://thinksmartbox.com/product/joycable/) <https://thinksmartbox.com/product/joycable/>

Headmouse options

There are a number of software programs that track a user's head position in order to control the mouse.

[Enable Viacam](#) and [CameraMouse](#) are free programs that use the computer's webcam for tracking.



Text to Speech programs

Text to speech will speak out text on the computer screen. There are a number of options below for text to speech software.

[NaturalReader](#) is a free TTS program that allows you to read aloud any text. The free version of the software converts Microsoft Word files, webpages, PDF files, and emails into spoken words.

[Balabolka](#) is a TTS program that allows you to read clipboard content and text from several types of files, such as DOC, EPUB, HTML, MOBI, LIT, CHM, PRC, PDF, and RTF files.

[ClaroRead](#) and [Texthelp](#) are both commercial products that provide text to speech and much more.

Voice Control

The [VAC system](#) is a program which you use to issue commands to your game or any program. Use your voice to speak words or phrases to [issue commands to your game](#).

For regular dictation of text, [Dragon Naturally Speaking](#) works well.

Eyegaze

Eyegaze has seen significant improvements to both hardware and software over the years with an increasing number of companies involved such as [Alea technologies](#), [Tobiidynavox](#), [Eyetechnical digital systems](#), [EyegazeInc](#), and [Irisbond](#).

[Demonstration video](#)

One switch games

- [Oneswitch.org.uk](#): This website offers information on accessible gaming and hosts a [download section](#) with many one-switch games.
- Marblesoft produces [accessible games](#)
- RJ Cooper has a selection of free games <http://rjcooper.com/rj's-free>

Example of One switch game

Strange Attractors was created for a "One-Switch" competition.

Just because the only button used by the game is the space bar (and Esc to exit) doesn't mean the game play isn't complex and unique.

Pressing the spacebar activates the gravity drive of your craft and creates an attractive force between yourself and the other objects in the game. Your goal is to sling and bounce yourself from the bottom of the level through the portal at the top. <http://ominousdev.com/>



Mainstream games

A lot of games do rely on speed of input, especially first person shooters such as Call of Duty and the Battlefield series. However, some Roll Play Games are suitable for a wider range of gamers as they are less reliant on input speed as some other games. Here is a sample of old and new, that might be suitable.

Far cry 6



Like an increasing number of games these days, Far Cry 6 begins with voice narration activated, a welcome inclusion for those who may not be able to see the opening menu. There are accessibility options for colour-blind mode and a range of accessible pre-sets (to cover most of the disability spectrum). The Far Cry series is known for its mature themes.

<https://youtu.be/uE2hnc8SVNI>

Division 2



Division 2 - Another [Ubisoft](#) game (same guys who do Farcry 6). Includes Eye Gaze support built in. The game offers an *aim assist* feature. There are several *difficulty settings* that can be adjusted for various in-game activities. *Vibration feedback* is available in-game. There are several customisation options for in-game *subtitles* and the game provides closed captioning features. Chats offer speech to text and text to speech features and you can remap keys and controls for this game.

Ghost Recon: Breakpoint



Ghost Recon: Breakpoint is another Ubisoft game. I haven't looked too much in to accessibility options, but it's from the same company as Division 2 and Farcry, so it should be pretty accessible. None of these are brand new games, they've all been around for over a year. But they look great and play well too.

Baldurs Gate 3



Baldurs Gate 3 - Isometric RPG set in the Dungeons and Dragons world. It's still in Early Access, but there's still a lot of content there. The latest Baldur's Gate 3 patch introduces some new features that can help with accessibility. Players can now increase and customize the font size for dialogues and apply a background to them. Baldur's Gate 3 finds players in a turn-based combat scenario, and allows pausing the world at any point to plan tactical moves. The game is available now for PC

No Man's Sky



This is a new title, on release it got very bad press as it was perceived to have left out promised features and generally did not live up to the hype surrounding it. However, the company that makes it has recently released a patch with a load of bug fixes and the first in what they say is a long line of new content for the game. The game is a space-based exploration and resource gathering game. There can be some combat (which is where input speed is important), but that's not the focus of the game as a whole. It looks interesting, and the focus on exploration and gathering over combat means there's a lot to do that won't require fast or accurate input, so those unable to react to situations quickly should still get as much out of the game as anyone else.

<https://youtu.be/vpkXfzkmBVY>

Minecraft



An old favourite of the internet. As above, its focus is more on exploration, resource gathering and building. It's best described as a digital Lego box (and looks about the same). There's no real requirement for input speed and accuracy is as much about placing blocks on each other so there's no time pressure.

<https://youtu.be/vnopybLY8zs?list=PLn7CSjAPE5FNWUIVGY-8ePeLuo9LGfj5o>

Skyrim and Fallout 4



From [Bethesda](#) these are two role-playing games (RPG) is a game in which players assume the roles of characters in a fictional setting. They are both big, open world games that players can explore while on a series of quests given by various characters encountered in the game world. While there is a heavy focus on combat, it's not as fast or as "twitch" based as other games such as the shooters. In terms of content, both feature a fair amount of blood splatter (Skyrim more than Fallout), mostly to be seen after fights as an effect in the environment but Skyrim especially does have a few areas where one can encounter already bloodied areas (usually associated with a quest). Skyrim was originally released about five years ago, but was re-released as Skyrim: Special Edition with updated graphics and lighting effects. Fallout 4 has been out for a few years now.

[Skyrim video](#) [Fallout 4 video](#)

Hero's of Might and Magic



This is an old series of games on the PC. They're unlikely to be available in shops, but the online service Steam should have them for sale. They're turn based games, so a player effectively has an unlimited amount of time to make a move. Like Skyrim, they're a fantasy RPG with quests and exploration, but rather than use a 1st or 3rd person perspective, you use travel points on a map to get from place to place. All combat is turn based, with players selecting creatures to fight and then the game's AI running the combat. This removes any time pressure normally associated with combat in a game, meaning it should be quite accessible to everyone. <https://youtu.be/emOu9EEzYPA>

RTS games

Real Time Strategy games such as Star Craft may be worth considering. While they can get a little hectic at times, a lot of the gameplay relies on forward-planning and resource management. As such, input speed is less of a factor in gameplay. Planning and defense (which can quite often be automated) are more important in these games, and combat is always done by the AI. Player input is needed to assign targets, but after that, units can be left alone to perform their tasks. Most combat units will engage enemies automatically when encountered, so a player simply needs to send them to an area on the map rather than click a specific target (unless they want to).

Walking Simulators

This is a new genre of games that has sprung up over the past few years. It encapsulates a type of game that is generally 1st or 3rd person but contains no combat gameplay. The player is simply exploring a story through movement and interaction with the environment. Most famous are titles such as “Everyone’s gone to the Rapture”, “Dear Esther” and “The Stanley Parable”. Due to the lack of combat, there’s no pressure for input speed or accuracy. At points in the environment, players may have to press a button on a wall or solve a puzzle, but the lack of combat removes a lot of the problems with reaction time found in other games.

Turn based games

Some turn based games may be accessible as they don’t require immediate input and allow the player to take their time to decide the necessary choices for their character.

[X-Com Enemy Unknown](#)

This game is a turn-based tactical role-playing video game for PC/Xbox/PS3/iOS. Set in the near future during an alien invasion of Earth, the game puts the player in control of an elite multinational paramilitary organization called XCOM and tasked with defending the Earth. The player commands troops in the field in a series of turn based tactical missions. As it is a turn-based strategy game, this is good news for players with disabilities because it means that the game has a slower, more forgiving pace. But for players with fine motor disabilities, because there are no quick time events or button combos of any kind the entire game can be played with one finger. Only slight problems will arise for hearing impaired gamers. All of the story dialogue is subtitled, and most of the game’s important alerts are displayed in distinct text boxes however the things that the individual units say are not subtitled. Players with sight disabilities might have slight issues. The text which the games uses to communicate certain aspects can be hard to read at times as it is displayed over a bright light, which may make some of the text unreadable.



Shadowrun Returns

Shadowrun Returns is a tactical role-playing game for PC/Android. The player is able to customize their character's gender and appearance. Combat is turn based, with the player controlling the actions of their team followed by the enemies taking their actions.



Dragon Age: Inquisition

Dragon Age: Inquisition, the third part of a series is a fantasy role-playing games. It's about elves, demons and dragons in a collection of worlds. Players can choose between male or female and play as a human, dwarf, or elf. Combat focuses more on a player's ability to prepare, position, and form a cohesive team with his or her party members. Note this game has mature content. The only real barrier in Inquisition is the text system. The text of Dragon Age can be hard to read, even for the sighted, so Dragon Age Inquisition will probably pose the biggest barriers for players with visual challenges, although reading a note will not have a significant impact on the way you play Inquisition. Players with fine motor disabilities will be happy to know Dragon Age Inquisition is extremely accessible. Gamers have the ability to stop combat and orchestrate manoeuvres. This allows players to remove themselves from the frantic action and the need for quick responses and instead take a more relaxed view of the combat, watching it unfold and pausing it at will.



Accessible games online resources

- Games accessibility project focuses on the accessibility of electronic games for gamers with disabilities. This website aims to inform disabled gamers about the availability of accessible games
<http://www.gameaccessibility.com/>
- [Robert Florio](https://www.robertflorio.com/games) is a quadriplegic gamer/developer, currently working on making a universal accessible game. <https://www.robertflorio.com/games>
- Ablegamers.com is a website that looks to bring mainstream games to the disabled community.
- Oneswitch.org.uk has a large resource on accessible gaming and accessible game consoles.
- Special Effect A Centralised place for people to review good and bad games.
- Acid-Play.com - Around 25 one-switch game reviews.
- Game-Accessibility.com - One-switch forums for games old and new.
- RetroRemakes - News from the pioneering RetroRemakes community.
- Audiogames, as opposed to video games are computer games whose main output is sound rather than graphics. Using sound, games can have dimensions of atmosphere, and possibilities for gameplay that don't exist with visuals alone, as well as providing games far more accessible to people with all levels of sight. E.g. [Audio gamehub - Game accessibility \(game-accessibility.com\)](http://Audio gamehub - Game accessibility (game-accessibility.com))

Other useful game review sites

- Deaf Gamers - A superb games review, but inactive at the time of writing.
- Easy Allies - Video clips of console and PC games.

4. Game Consoles (Xbox and Wii)

The accessibility of game consoles such as the Xbox or PS5 are largely dependent on the games played. Alternative controllers may greatly improve the accessibility of a game. Options such as switch access or larger joysticks are available

Accessible game controllers

One-handed controller

Switch Interface Deluxe

A versatile adapted arcade stick controller that can accept from one to 27 external accessibility switches. Compatible with PC, PS2, PS3 and Xbox 360.

<https://youtu.be/6pvegeFITxM>



XBox Adaptive Controller

This controller enables you to connect external devices such as switches, buttons, mounts and joysticks to create a custom controller experience that is unique to your needs. Button, thumbstick and trigger inputs are controlled with assistive devices (sold separately) connected through 3.5mm jacks and USB ports.



Proteus Controller from ByoWave

This is probably the most exciting new development in accessible gaming we have seen since Microsoft launched the Xbox Adaptive Controller. The modular design of Protious allows gamers design bespoke controllers to their exact specification. The ByoWave team who are based in Galway here in Ireland worked on the design of this controller together with gamers who, due to disability weren't being served by traditional controllers. They also had several meetings with us in Enable Irelands National AT Training Service to discuss various design decisions as they developed their prototype. Early release Protious controllers can now be pre ordered from the link above. Below is a link to their blog where they frequently discuss gaming accessibility and health matters.



[Accessible Gaming - ByoWave](#)

[XIM APEX](#)

XIM APEX enables a gamer to choose the input devices that suits them best. Mix and match different devices for your optimal playing style. Such as alternative mouse, keyboard or analog (thumbstick) and more for your Xbox Series X|S, Xbox One, PlayStation 4 (PS4), Xbox 360, and PlayStation 3 (PS3).



[Quad Button Box w/Xbox 360 or PS3 Game Controller](#)



It both holds the controller and gives BIG button access to those hard-to-reach triggers.

<https://store.rjcooper.com/products/quad-button-box-for-game-controller>

Other controllers <http://www.oneswitch.org.uk/1/AGS.htm>

[Review of console games](#)

<http://www.unstoppablegamer.com/category/accessible-game-reviews/>

5. Switch adapted toys

There are a number of suppliers of “Off the shelf toys” that have been adapted for switch use. This type of adaptation is suitable for simple operated toys as seen in the samples below.

Suppliers

- [Etsy](#)
- [Inclusive technology](#)
- [One switch.org](#)
- [Liberator](#)

Sample of Toys

Switch Adapted Toy - Penguin Racer

Penguin Racer is a switch adapted toy encouraging learners to press a switch and set the three penguins off on a race! Watch as the penguins are hoisted up the ski lift ladder, then slide quickly down the winding slope before they do it all over again. Height is approximately 14"/36cm. Contains small parts.

Uses a 3.5mm switch

£34.00



<http://www.inclusive.co.uk/switch-adapted-toy-penguin-racer-p5781>



This switch adapted remote control Buzz Lightyear. One button controls forward movement. Requires 5 AAA batteries, not included. This toy is adapted with a standard 3.5 mm female input jacks. This allows you to use the toy with most standard adaptive switches.

Modification of toys

Battery Switch Adaptors

Some toys have a single on-off switch - you turn it on and it does something, you turn it off and it stops doing it. These toys are easily modified with a small device called a power interrupter (battery switch adaptor) that slips in between two of the batteries in the battery holder. £9

<http://www.inclusive.co.uk/battery-switch-adaptors-p2541>

<http://www.youtube.com/watch?v=DaivAvvvKy0>



Toy switch adaptation of battery operated toys

There are some useful videos online that demonstrate how battery operated toys can be made switch accessible. It is necessary to find the single on-off switch - you turn it on and it does something, you turn it off and it stops doing it. You then modify this with a switch socket.

For example see the following video for an example of adaptation of a toy.

<http://www.youtube.com/watch?v=nxNtdBfaoW8>

6. Visual toys

Magic Jellyfish

Multicolored LED lighting provides an illumination of Jellyfish that bob up and down in the mini-aquarium.

Dimensions (L x W x H): 60 x 185 x 250 mm

<http://www.maplin.co.uk/p/magic-jellyfish-n98kf>

<http://www.youtube.com/watch?v=h7TxlC65-5c>



Plasma Ball

This light patterns inside the globe will respond to your touch or can be left to run alone or set to dance to the beat of music. It is mains operated. €27.99

<http://goo.gl/kPJ0eO> <http://www.youtube.com/watch?v=DB72OUh8f5Y>

Swirl Ball - 10cm diameter

Clear bouncy ball that has small colorful beads inside that move when rolled or bounced.

<http://www.specialneedstoys.com/uk/sensory/sensory-balls/swirl><http://www.specialneedstoys.com/uk/sensory/sensory-balls/swirl-ball-visual-sensory-toy.html>



Rainbow Shakers

16 hardwood envelopes contain 3 different materials: Sand; Beads; and Glitter.

□ Dimensions: 15 x 8 x 4

£37.25



<http://www.specialneedstoys.com/uk/visual/colours/rainbow-shakers-visual->

[sensroy](http://www.specialneedstoys.com/uk/visual/colours/rainbow-shakers-visual-)[sensroy](http://www.specialneedstoys.com/uk/visual/colours/rainbow-shakers-visual-)

[sensroy-toy.html](http://www.specialneedstoys.com/uk/visual/colours/rainbow-shakers-visual-)[toy.html](http://www.specialneedstoys.com/uk/visual/colours/rainbow-shakers-visual-)

Rainbow Letters

26 acrylic letters in bright clear colours and a clear font.

□ Dimensions: 7cm

£14.99



<http://www.specialneedstoys.com/uk/visual/colours/rainbow-letters-visual->

[sensoryhttp://www.specialneedstoys.com/uk/visual/colours/rainbow-letters-visual-](http://www.specialneedstoys.com/uk/visual/colours/rainbow-letters-visual-sensory-toy.html)

[sensory-toy.htmltoy.html](http://www.specialneedstoys.com/uk/visual/colours/rainbow-letters-visual-sensory-toy.html)

Boing Pro

Rubbery light-filled ball, every time it's squeezed it changes colour.

- Power: 2 x AA.
- Dimensions: 8cm dia

£7.95 tax excl.

[https://www.amazon.co.uk/Special-Needs-Toys-](https://www.amazon.co.uk/Special-Needs-Toys-Boinghttps://www.amazon.co.uk/Special-Needs-Toys-Boing-Pro/dp/B0018SBOM6Pro/dp/B0018SBOM6)

[Boinghttps://www.amazon.co.uk/Special-Needs-Toys-Boing-](https://www.amazon.co.uk/Special-Needs-Toys-Boing-Pro/dp/B0018SBOM6Pro/dp/B0018SBOM6)

[Pro/dp/B0018SBOM6Pro/dp/B0018SBOM6](https://www.amazon.co.uk/Special-Needs-Toys-Boing-Pro/dp/B0018SBOM6Pro/dp/B0018SBOM6) <https://youtu.be/LU7E9fzDJjo>



Fantastik

You can stop this mesmeric fan with a finger without fear.

- Power: 2 x AA

£3.99

<http://www.specialneedstoys.com/uk/visual/fantastik-visual-sensory-toy.html>



Kaleidoscope

This jumbo-sized kaleidoscope comes with a double-color glitter wand. Both of the colors create fun "slow-motion" images. Color of the Kaleidoscope varies.

- Dimensions: 9

£11.95



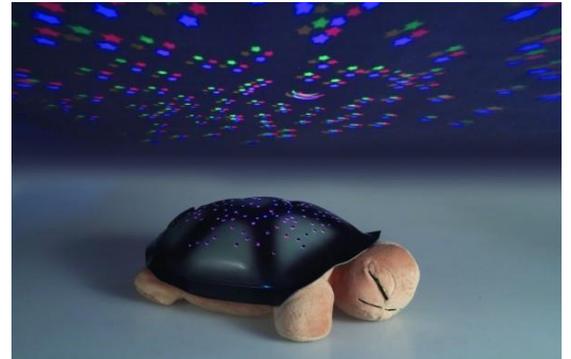
<http://www.specialneedstoys.com/uk/visual/eye-candy/kaleidoscope-visual-sensory><http://www.specialneedstoys.com/uk/visual/eye-candy/kaleidoscope-visual-sensory-toy.html>

Star Turtle

Stars shine from this sleeping reptile's shell

- Power: 3 x AAA
- Dimensions: 30 x 20 x 11 cm

£26.25



<http://www.specialneedstoys.com/uk/visual/star-turtle-visual-sensory-toy.html>

SandScapes

Slow moving sand sculptures. Flip it over to reset.

Dimensions: 20 x 14cm, £14.50

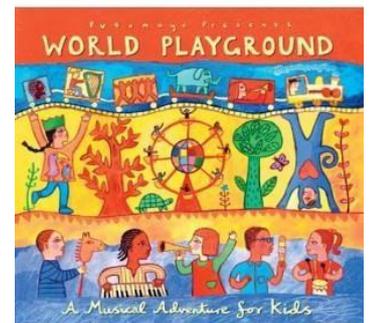
<http://www.officeplayground.com/office-decor-c888/sand>[http://www.officeplayground.com/office-decor-c200.html](http://www.officeplayground.com/office-decor-c888/sand-pictures-c200.html)



7. Auditory

World Playground

Playground CD's & DVD's with upbeat sounds for playtime and dancing. £12.95 [https://www.amazon.co.uk/World-Playground-Putumayo-Kids-](https://www.amazon.co.uk/World-Playground-Putumayo-Kids-Presents/dp/B00000JT4P/ref=sr_1_1?ie=UTF8&qid=1481129977&sr=8-1&keywords=world+playground+cd)



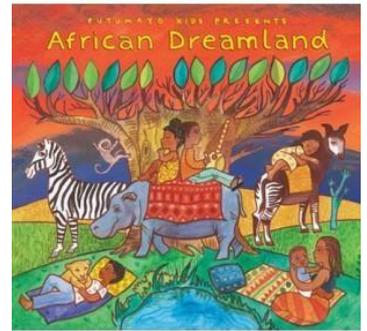
[Presents/dp/B00000JT4P/ref=sr_1_1?ie=UTF8&qid=1481129977&sr=8-1&keywords=world+playground+cd](https://www.amazon.co.uk/World-Playground-Putumayo-Kids-Presents/dp/B00000JT4P/ref=sr_1_1?ie=UTF8&qid=1481129977&sr=8-1&keywords=world+playground+cd)

African Dreamland

Dreamland CD's & DVD's blend soft and melodic tunes to help soothe and relax children when it is time to unwind.

£12.95

<https://goo.gl/y3hV8v>

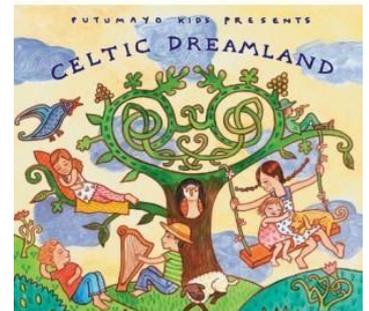


Celtic Dreamland

Playground CD's & DVD's with upbeat sounds for playtime and dancing.

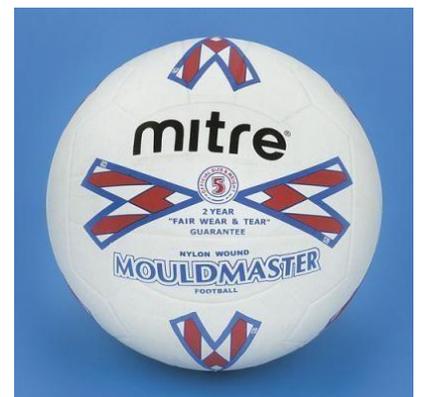
£12.95

<https://goo.gl/kOny1W>



Ball, Audible Mitre football

Inflatable white rubber football, fitted with carbon steel balls (ball bearings) which rattle when the football is shaken or moved. Encourages physical play, listening skills and development of spatial awareness. Size five ball. Suggested age range: 3 years plus Diameter:21.5cm (8.46")



<https://www.ncbi.ie/product/ball-dl108433/> See other auditory toys

<http://www.specialneedstoys.com/uk/auditory/>

http://www.rehabmart.com/category/pediatric_auditory_stimulation.htm

8. Tactile toys

Texture Tangle

Bumpy, rough and squidgy version of the popular Tangle. £17.95



<http://www.specialneedstoys.com/uk/tactile/476-texture-tangle.html>

Vibro Tube

Indestructible wipe-clean proprioceptive aid that vibrates. Off when horizontal, twist it in the air to turn it on.

- Power: 2 x AA.
- Dimensions: 18cm

£55.00

<http://www.specialneedstoys.com/uk/proprioception/vibro-tube-sensory-tactile-toy.html>

TherapyTangle

Rubbery version of gives your hands a

NOT SUITABLE FOR

£9.50



the popular manipulative that mind of their own. Latex-free.

PERSONS UNDER 6 YEARS



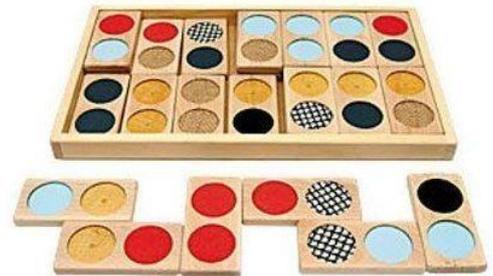
<http://www.specialneedstoys.com/uk/tactile/479><http://www.specialneedstoys.com/uk/tactile/479-therapytangle.html>

Dominoes - tactile

A tactile domino game of 28 wooden tiles with a combination of 7 different textures. From 3 years

€25.40

<https://goo.gl/xWNPcG>

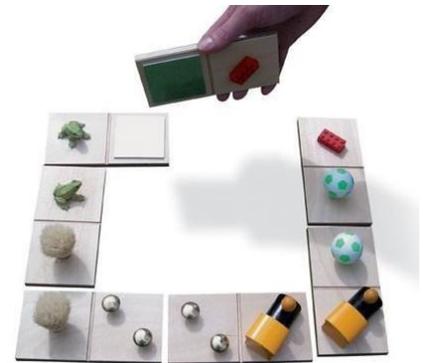


DominObjects

Firmly fixed to the wooden tiles are a magnificent selection of things that can be matched with their mate. Single set of 7.

□ Dimensions: 8 x 15cm

£49.00



https://www.amazon.co.uk/s/ref=nb_sb_noss?url=search-alias%3Daps&field-keywords=DominObjects

Ball Tactile

This brainteaser provides challenging fun for everyone who enjoys using both their mind and their hands together to solve a puzzle. It's also accessible to the Blind. Take the pieces apart and reassemble them into the original soccer ball shape. Made of smooth-sanded wood with a brown stained finish. Approx. diameter: 3 inches. Weight: 4.2 oz.

€9.00

<https://blindfoundation.org.nz/how-we-can-help/shop/around-the-home/recreationhttps://blindfoundation.org.nz/how-we-can-help/shop/around-the-home/recreation-games/tactile-wooden-ball-puzzle/games/tactile-wooden-ball-puzzle/>



<http://www.specialneedstoys.com/uk/tactile/soft-toys/tactile-balls-sensory-finger><http://www.specialneedstoys.com/uk/tactile/soft-toys/tactile-balls-sensory-finger-toy.html>

9. Musical toys and instruments

Magic Flute

The Magic Flute is an electronic musical instrument that enables people whose only reliable movement is the head and breath to play music. The flute is similar to a harmonica or slide whistle in that it requires no fingers to play and both note and expression can be controlled using the mouth.



<https://youtu.be/VY9Zx2fMhLs> <http://housemate.ie/magic-flute/>

Quintet

The Quintet is for teachers, therapists, parents and others who want to use music in an activity with children or adults. It can be used with a group of people or by a single individual. Because you do not need to be an expert in music to operate the Quintet it can be used in many situations including Classroom activities, Music Therapy workshops, Occupational Therapy sessions and much more.

<http://housemate.ie/quintet/>



Skoog 2

A tactile to create and learn music. Skoog is a powerful and fun music interface for iPad that opens up a world of 'music play' to everyone, including those with disabilities.

<http://skoogmusic.com/>

<https://www.youtube.com/watch?v=IDGREk0YuSA>



Hands-On 10-piece Percussion Set

Hands-On 10-piece Percussion Set includes a pair of maracas, a metallophone, castanets, finger cymbals, wrist bells, two egg shakers, wood-block, hand-drum, wood agogo € 48.00



<http://www.waltons.ie/home/products/view/09ahanhttp://www.waltons.ie/home/products/view/09ahan-lt10a-hands-on-percussion-set-10-piece/lt10a-hands-on-percussion-set-10-piece/>

DXP Bongo Set

€ 69.00

<http://www.waltons.ie/home/products/view/09adxp-jdbhttp://www.waltons.ie/home/products/view/09adxp-jdb-101-dxp-jdb-101-bongos-natural/101-dxp-jdb-101-bongos-natural/>



Hands-on Floor Drum 20x9cm

€ 12.00

<http://www.waltons.ie/home/products/view/09ahan-lyhd-10a><http://www.waltons.ie/home/products/view/09ahan-lyhd-10a-hands-on-20-x-9-cm-floor-drum-red/hands-on-20-x-9-cm-floor-drum-red/>



Hands-on Metallophone

€ 13.00



<http://www.waltons.ie/Product/View.aspx?id=28189&cid=240>

Footnotes

8 rugged notes that can be spread around, jump on them to play them.

£351.00



<http://www.specialneedstoys.com/uk/motor/footnotes-noisy-sensory-toy.html>

10. Electronic Toys

Air Hogs Remote Controlled Laser Zero Gravity Vehicle

Just point the light beam and watch the vehicle chase it up the wall or upside down.

- Only works on smooth surfaces.
- For ages 8 years and over. <https://goo.gl/pDo8fW>

<https://youtu.be/UPw4qYG7Tsw>

Thomas V.Smile Motion Active Learning System

Pre-school TV learning console, complete with motion sensing wireless controller. Accompanied by Thomas & Friends Learning Game introducing colours, shapes, vocabulary, numbers, logic, spelling and more. Add a second joystick (not included) for 2-player gaming. TV, extra controller and mains adaptor not included.

€34.99 <https://goo.gl/KqBDB9>



4 Channel Indoor I/R Helicopter

Infrared helicopter with built in gyroscope that automatically balances the helicopter in flight. Maneuverability options include forward/backward, up/down, left rotate/ right rotate, left bank/right bank.

<http://www.maplin.co.uk/p/4-channel-indoor-ir-helicopter>
<http://www.maplin.co.uk/p/4-channel-indoor-ir-helicopter-n14jwn14jw>
<http://www.youtube.com/watch?v=InQTdTh-Bns>

€30



Roborover

WowWee's Roborover is part of its Robotics line, and is operated through a remote control. This talking robot comes with some spoken content and a bunch of driving-based games.

These toys can be made more accessible by controlling them through the computer with UIRT as detailed below.

<http://www.wowwee.com/en/products/toys/robots/robotics>

<https://youtu.be/JOSLmCGh8Kq>



Robotic Arm Kit with USB PC Interface

This robotic arm can be controlled via your PC via USB port. Includes software for controlling the arm that enables your keyboard and mouse to have real time control. Programming option to save or load preprogrammed user files for a series of movements. Maximum Lift 100g.

<http://www.maplin.co.uk/p/robotic-arm-kit-with-usb>

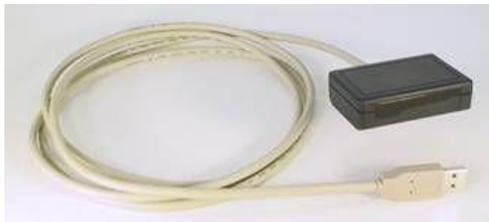
<http://www.maplin.co.uk/p/robotic-arm-kit-with-usb-pc-interface-a37jnpc-interface-a37jn>

https://youtu.be/0w-tN_E4IEo



Universal Infrared Receiver Transmitter

UIRT



This is a device that could be used to interface to many toys or games that are controlled by infrared. The UIRT is a Universal Infrared Receiver Transmitter. It is typically used along with Automation Software however used with [GRID 3](#) from thinksmartbox you can create custom onscreen layouts to control your infrared devices. You start by learning the remote controls from remote controlled toy. This can then be reproduced from the computer when selected allowing you to control games or toy. You can use the assistive technology that is installed on the PC to access your device.

UIRT \$50 Grid €500

<http://www.usbuirt.com/>

Tira

Similar to the above <http://www.home-electro.com/products/tira-21>

11. Traditional Games

Wooden rings and stand

Can be used vertically
or horizontally.
Includes 6 rings
graded in size
€89.00



http://www.thinkingtoys.ie/gross-motor-skills--all?product_id=2271

Pallina

A dexterity game for 2-6 players aged 4 and upwards. The sticks have to be pulled out of the tower without letting a nugget fall down - this is a big challenge for fine motor skills. £18.00

<https://www.amazon.com/Pallina-Bamboo-Sticks-Balls>
<https://www.amazon.com/Pallina-Bamboo-Sticks-Balls-Game/dp/B0042RVNFI>
[Game/dp/B0042RVNFI](https://www.amazon.com/Pallina-Bamboo-Sticks-Balls-Game/dp/B0042RVNFI)

Wood Labyrinth

Turn the two knobs to maneuver the steel ball through the maze of holes.

- Dimensions: 13" x 11" x 3.5"

£21.95 <https://goo.gl/CX6NvC>



Tower Slope

Rise to place a vehicle at the top of the slope and it slides and flips its way elegantly down again.

- Dimensions: 28 x 46 x 79cm

£67.25

<http://www.specialneedstoys.com/uk/fine-motor/1133-tower>
<http://www.specialneedstoys.com/uk/fine-motor/1133-tower-slope.html>



Cards, Giant sized playing cards

Larger than an average pack of playing cards printed with giant easy-to-see letters and numbers. Cards measure 8.9cm (3.5 inches) by 13.6cm (5.25 inches). Characters measure 2.5cm (0.6 inches) in height. The diamond, club, spade and heart are also much larger and are easily identifiable.

Width:8.9cm (3.5") Length:13.6cm (5.35")

€4.00 <http://www.ncbi.ie/product/cards-giant-sized-playing-cards-gc09/>



12. Useful links

Sites for educational toys and special needs products

- <http://www.specialneedstoys.com/uk/>
- <http://www.thinkingtoys.ie/>
- <http://adamandfriends.ie/estore/>
- <https://www.ncbi.ie/product-category/games/>

General Assistive Technology suppliers

EdTech Software Ltd

Mayo Phone: + (353) 098 64886 and LoCall 1850 923 459 <http://www.edtech.ie/>

Inclusive Technology Ltd

United Kingdom Phone: + (44) 01457 819790 <http://www.inclusive.co.uk>

Jackson Technology

Dublin Phone: + (353) 01 451 8508 <http://www.jacksonstechnology.com/>

Unique Perspective

Designs and develops accessible devices such as musical instruments, environmental control devices, switch accessible phone etc.

<http://housemate.ie/>

Help Kids Learn

is a site of accessible software games geared towards young children.

<http://www.helpkidzlearn.com/>

RJ Cooper

has information on various switch adapted devices and iPad accessories

<http://www.rjcooper.com/>

13. Appendix

iPad Apps

Cause and Effect/Simple games

- Balloons
- Pop Balloons
- Bubble Wrap
- Bubble Snap
- I love Fireworks
- Draw Stars
- BubbleXplode
- Touch Music
- iFish Pond
- Animals Lite
- Stop & Go
- Talking Ben/Tom/Santa/rex etc.
- Peekaboo Ocean
- Peekaboo barn
- Furry friend
- Fart Piano
- Burp and Fart Piano
- Rattle
- Garbage truck
- Old MacDonald

Reading

- Hairy Maclary
- Bartleby
- Cat in the Hat
- Create your own stories ○ StoryBuddy ○ Pictello ○ My Story ○ Tellastory
○ Pictello

Music

- Virtuoso
- Baby touch Music
- Piano School
- TonePad
- String Trio
- Songify
- Inception Xylo

Fine motor Games

- Mosaic
- Solitaire
- DangerFinger
- Fast Finger
- FingerPaint
- Clouds
- TouchTrainer
- Paint and Learn
- AMaze Friends
- Kids Puzzle
- Pop Lite
- DTDNumLetLite
- Puzzle
- Save the Fishes
- Puzzles 'N Coloring
- Air Hockey
- Skill game

Art

- Doodle Buddy
- iColoring
- Colors
- Coloring
- Colours
- Free Paint
- PaintSparkles
- Kids Drawings
- Kiddy Art
- Sketch Club
- Puzzles 'N Coloring
- We doodle

Visual Discrimination

- Find Me!
- Match It Up
- 10 Pin shuffle
- Amazing Shape Puzzle

Fun strategy games

- Checkers
- Sudoku
- AngryBirds
- BlockSAhooter
- Fragger

Switch Games

- Catch the cow

- A leader is
- Adapted Play Book – EIEIO/Peanut Butter
- Bumper cars
- Aunty Maggie’s Recipes/Smarty pants/Five Little Aliens/Five Sharks
Swimming – Inclusive technology
- Rad sounds
- Scan and Match
- I Can help
- KopyKatz
- Hurdle Champion
- Space Shooter
- SwitchKids
- Train Tracker

NB! Remember to check which switch box is suitable for the chosen app – useful list

<http://www.janefarrall.com/html/resources/Switch%20Accessible%20Apps%20for%20iPad.pdf>